# Surface Warships



Spirit of '76

#### Today

- MCM-1 MHC-51
- LSD-41 LHA-1
- FFG-7 LHD-1
- DD-963 CG-47
- DDG-51 CVN-68







- DDG-51 Flt IIA
- LPD-17
- CruiserConversion
- FFG-7Modernization
- CVN-77





#### ◆ Future

- DD-21
- CG-21
- JCC(X)
- LHA(R)
- T-AKE
- CVN (X)

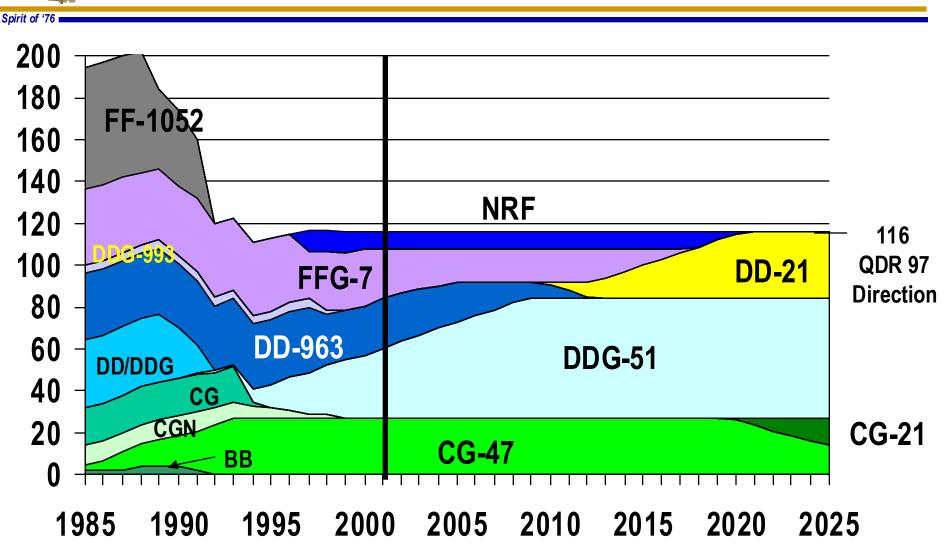
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# Recent Surface Warship Successes

- First Flight IIA DDG-51 delivered: USS OSCAR AUSTIN (DDG-79)
  - 30 of 57 DDG-51s commissioned
- LPD-17 keel laid
- JCC(X) AoA Part I complete, Part II JUL01
- Smart Ship starting on AEGIS Cruisers
- DD-21 proposals in hand, source selection in process
- Six Mine Warfare Ships forward deployed to Arabian Gulf (x4) and Japan (x2)



## Surface Combatant Force Level



# Shipbuilding Challenge







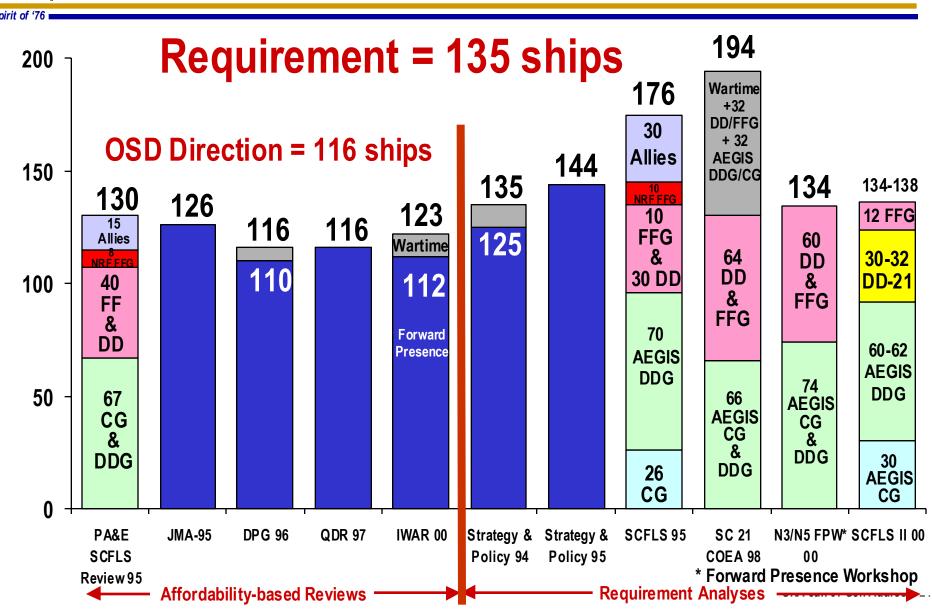


- Quadrennial Defense Review '97 force level of approximately 300 ships
- Trends in operations and deployments severely stressing current level of 318 ships
- Analysis suggests requirement of ~360 ships
  - 3 Carrier Battle Groups/Amphibious Readiness Groups in 3 forward deployment hubs
- Current shipbuilding funds meet neither QDR '97 force levels nor current mission analysis levels

Force Structure	Ships per year	<u>Funding per year</u>
360	10.3	\$12.4B
305	8.7	\$10.5B
<b>BES 02</b>	6.3	\$7.7B

**Build to Force Level Requirements** 

# Surface Combatant Force Level Mix Studies 1994 - 2000



#### **DDG-51**



#### ◆ DDG-51:

Most capable destroyer ever built

57 programmed

- Continuous warfighting improvements
- Flight IIA starting to enter Fleet
- Ahead of schedule and under cost





Most Successful Program in DoD



# USS COLE (DDG-67)

"Men mean more than guns in the rating of a ship"
-John Paul Jones-

- People were magnificent -- highest traditions of the Naval service
- Tough design critical to survival
- Re-learned lessons in many areas
- Anti-Terrorist / Force Protection capability must evolve to meet growing / determined terrorist threat

**US Will Not Be Deterred From Presence Mission** 

# LPD-17.....Centerpiece for 21st Century

- ◆ 12 ships replace four ship classes
  - LPD-4, LKA, LST, and LSD-36
  - Enhanced ship self defense systems
    - Improved acquisition process
      - Minimal mil-specs
        - Robust communications
          - Integrated Marine shooting trainer
            - Shock hardened
              - Versatile Marine training spaces
                - Fulfills Marine Corps lift requirements

**Expeditionary Maneuver Warfare** 



#### FFG Modernization

Spirit of '76



**Work Horse of the Fleet** 



# Combat Logistics Forces

- ◆ 12 T-AKE Ships planned with IOC in 2005
  - Replaces aging T-AE, T-AFS-1/8, and AOE 1 class ships



- Diesel, gas turbine, or electric drive propulsion plant
- Size, speed (20-26 kts), and cargo mix (single or multi product)
   will be the result of various ongoing trade-off studies

**Beans and Bullets at Commanders Call** 



### Cruiser Conversion

Midlife modernization of 27 AEGIS Cruisers

14 AREA TBMD and Strike Leaders

13 Navy Theater Wide TBMD and Area Air Defense

**Coordinator (AADC) Leaders** 

- Rationale
  - Sustain force levels
  - Deploy new vital capabilities sooner
    - » TBMD
- » Land Attack

- Cost effective
- Industrial base preservation
- Wide support
- \$2.1B in Five Year Defense Plan (FYDP) for 10 CG's. CG-47 thru 51 not included

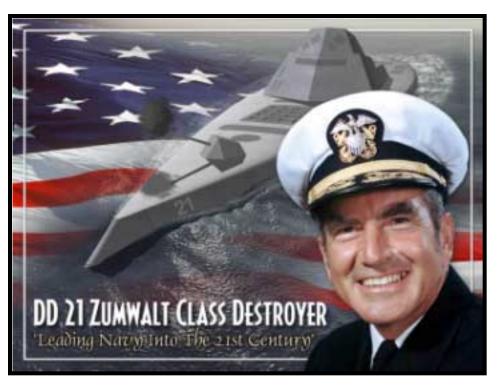


**Meets All SECNAV / CNO Priorities** 

# DD-21 The Future of Surface Warfare

#### Multi-mission

- Assured access
- Power projection
- Projected defense
- Major offensive firepower
- Passive and active self defense
- Full service contract
- 21<sup>st</sup> Century acquisition strategy



Multi-warfare Capability With Land Attack Focus



## DD-21 - A Revolution in the Making

- Integrated power system
  - Open architecture distributed combat system
    - Advanced hull form
      - Reduced manning
        - Extensive but smart automation
          - Advanced wideband apertures
            - Signature reduction
              - Reduced operating and support costs
                - Advanced gun / land attack missile systems
                  - Multi-function radar / volume search radar
                    - ◆ In-stride mine avoidance







### Surface Mine Counter Measures

- Robust In-Stride MCM Capability for Combatants
- One Carrier Battle Group (CVBG)
   Organic MCM equipment will be
   composed of:
  - Three AMCM CH-60 Helicopters
  - Three Remote Minehunting Systems (RMS)
  - One Long-Term Mine Reconnaissance System (LMRS)





Organic Capability Essential for Littoral Operations